

Remote monitoring with industrial IoT

At the heart of this effort are thousands of sensors which SNCF is deploying on its trains, covering more 30,000 kilometres of track, 15,000 trains and 3,000 stations. Each of these sensors immediately and securely will send tens of thousands of data points to the IBM Watson IoT Platform on IBM Cloud where the data is analyzed in real-time.

Using IoT technology, engineers can connect to running trains in real time, enabling SNCF to monitor components and remotely manage work carried out on each individual potential train or rail issue. For example, SNCF can remotely monitor train doors for potential failures, air conditioning, windshield water levels and oil temperatures. By connecting to running trains, engineers and other personnel can anticipate when specific issues need to be addressed.

IBM today announced that French national train operator [SNCF](#) is leveraging IBM Watson Internet of Things (IoT) technologies to deliver greater customer experiences and heightened operational excellence.

SNCF serves the needs of more than two billion passengers annually. Underlying the company's success has been its ongoing commitment to delivering exceptional services to its customers, including minimizing delays, ensuring passenger safety and delivering a superior on-train experience for commuters.

